



Certificate Retrieval

Automatic certificate retrieval

- S/MIME certificates on iOS & Android
- managed & unmanaged devices
- transparent to the user
- support for native apps
- enable mobile end-to-end encryption



S/MIME certificates for mobile devices

Mobile end-to-end encryption

Mobile S/MIME

Digital certificates can be used on mobile devices for authentication, encryption and digital signatures. Native mail apps on iOS and Android devices support S/MIME for digital signing and end-to-end encryption of e-mails.

End-to-end encryption

In order to encrypt a user needs the S/MIME certificates of all recipients of his e-mail. Companies publish the encryption certificates of the employees in a certificate directory, which is accessible via LDAP. The Secardeo certBox is used for global retrieval of S/MIME certificates via

LDAP. However, standard mail apps on iOS and Android do not use the Exchange Active Sync (EAS) protocol. The server then only performs the search in the local directory, usually Active Directory, and returns certificates found there to the mobile device. This limits the certificate search to the internal colleagues within the company.

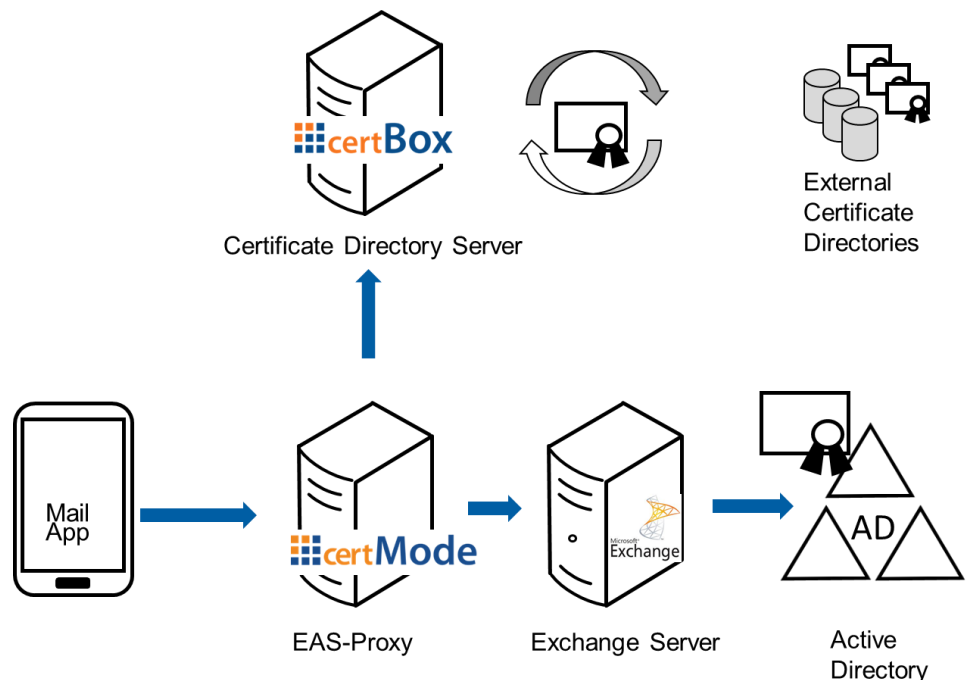
Global certificate retrieval

The solution for this problem is provided by the certMode EAS proxy between the mobile device and the server, see Figure 4 (patent issued under DE 10 2013 016 466). The

EAS proxy routes the search requests to both the Exchange ActiveSync server and the Secardeo certBox. The search response then contains S/MIME certificates of both the local recipients and the global recipients. This allows the user of the mobile device to encrypt transparently when e-mailing to any recipient.

Integration

The certMode EAS proxy integrates with your MS Exchange or any other ActiveSync server. It provides a connection to the Secardeo certBox or another LDAP server.

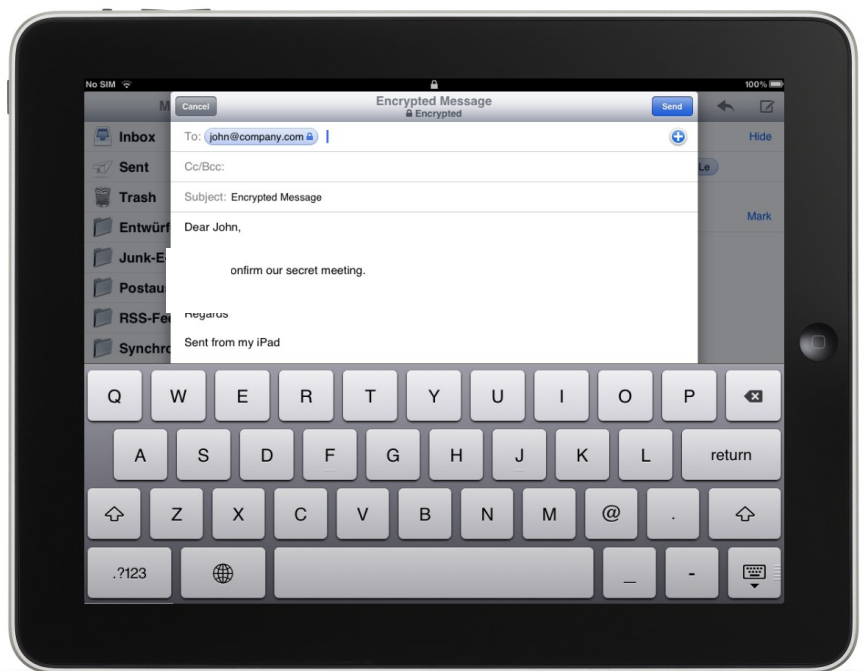
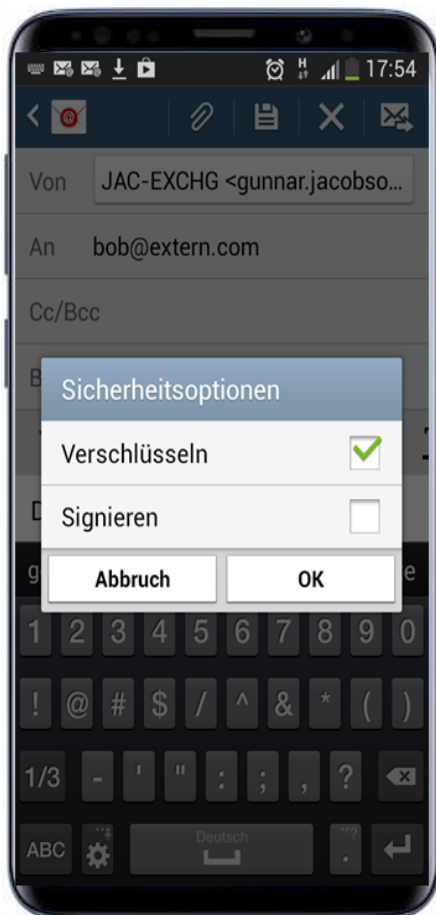


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certMode EAS provides an Exchange ActiveSync proxy for retrieving external partner's encryption certificates. This enables transparent end-to-end encryption on mobile devices. certMode is delivered as a virtual machine.

certMode EAS provides the following features:

- supplies native mail apps on iOS and Androids with recipient certificates from global directories
- transforms EAS certificate retrieval requests into LDAP search requests
- returns all encryption certificates found in AD and in Internet directories to the device



Virtual Appliance:

VMware Virtual Hardware 8
Hyper-V Generation 1 (VHD)

Network: 2x Bridged
HDD: 1 x 20 GB

Supported mobile OS:

- iOS 7 and newer
- Android 4.2 and newer

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)

Supported Standards:

- Exchange ActiveSync protocol
- LDAPv3 RFCs 4510 - 4512
- X.509-Certificate and CRL Profile RFC 5280

This product includes cryptographic software written by Eric Young (eyay@cryptsoft.com)

Supported LDAP servers:

- Secardeo certBox v3

Further on request.